

Product datasheet for **RC231409**

Enconsin (MAP7) (NM_001198608) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enconsin (MAP7) (NM_001198608) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Enconsin
Synonyms:	E-MAP-115; EMAP115
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC231409 representing NM_001198608
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGGATCAGCTACAGCTCTCCGACATGAGAGACTGAAGAAGACCAATGCAAGGCCAATTCCTCTTG
 GTTTATTACCATTAAATGAGGAAGACGAAACAGCAAAAAGAAATGAAAATTCAGAAGACAAAAGCACCCGA
 CAGCTACAAAGTGCAAGATAAGAAAAATGCCTCCAGCCGCCCTGCCTCTGCAATTCAGGACAAAATAAC
 AACCACTCAGGAAATAAACAGACCCTCCGCTGTGTTACGTGTTGATGACCGGCAGCGGCTGGCCCGGG
 AGCGACGTGAGGAACGGGAGAAACAGCTAGCTGCAAGAGAAATAGTGTGGTTAGAAAAGAGAAGAGCGAGC
 CAGGCAGCACTACGAGAAGCACCTGGAAGAGCGGAAGAAGAGGTTGGAGGAGCAGAGGCAGAAGGAGGAG
 CGGAGGAGGGCTGCTGTGGAGGAGAAGCGGAGGCAGAGACTTGAGGAGGACAAAGAACGCCACGAAGCTG
 TTGTACGGCGACAATGAAAAGGAGCCAGAAGCCAAAACAGAAGCATAACCGTTGGTCGTGGGAGGCTC
 TCTCCATGGGAGCCCTAGCATCCACAGTGCAGATCCAGACAGGCGGTGAGTTCCACCATGAATCTTTTCG
 AAATATGTTGATCCCGTCATTAGCAAGCGGCTCTCCTCTTCATCTGCAACTTTACTAAATCTCCAGATA
 GAGCTCGCCGCTGCAGCTCAGCCCATGGGAGAGCAGCGTTGTTAACAGACTCCTGACGCCACACATTC
 GTTCTGGCCAGAAGTAAAAGCACAGCTGCCTTGTCTGGAGAAGCAGCATCTTGACAGCCCATCATCATG
 CCCTACAAAGCTGCACACTCTAGAAATTCGATGGATCGACAAAACCTCTTTGTAACACCCTGAGGGCT
 CTTCTCGCAGGAGGATCATTTCATGGCACAGCGAGCTATAAAAAAGAAAGAGAGAGAGAAAATGACTCTT
 CCTCACATCTGGCACCCGAAGGGCTGTATCTCCATCTAATCCCAAAGCAAGACAACCAGCTCGTCCCGA
 CTTTGGCTTCCGTCCAAGTCTCTTCTCATTGCTGCGACACCCAGACCCGACATCCTCCTTGCCACCCG
 GCTCAGTCAAAGTGTCTCCTGCTCAGTCCGGCCCATCCCGGCAACATCCGCTGTCAAGAGGGA
 AGTCAAAGTGGAGCCTGAGAAGAAAGATCCTGAGAAGGAACCTCAGAAAAGTTGCCAATGAGCCCTACTA
 AAGGGCAGAGCACCTTTAGTGAAGGTAGAAGAAGCCACAGTTGAAGAGCGGACACCTGCTGAACAGAAG
 TTGGCCCTGCTGCTCCAGCCATGGCCCCAGCTCCAGCCTCGGCCCCAGCTCCAGCCTCGGCCCCAGCTCC
 AGCCCCGGTCCCCACCCAGCCATGGTCTCAGCCCCGTCCACTGTGAATGCCAGTGCTTCTGTAAAG
 ACTTCTGCAGGCACCACCCAGCCAGAGGAGGCCACAAGGCTTCTAGCTGAGAAGAGGCGGCTGGCCCGAG
 AGCAGAGAGAAAAGGAAGAAAGGGAGAGGAGGGAGCAGGAAGAGCTTGAAAGACAAAAGAGAGAGGAATT
 GGCTCAACGTGTGGCTGAAGAGAGGACGACTCGCCGTGAGGAGGAGTCCGCGAGGCTGGAAGCCGAGCAG
 GCCCGGGAGAAGGAGGAGCAGCTGCAGCGCAGGCGGAGGAGCGGCGCTGCGCGAGCGGGAGGAGGCAG
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 AGAACCAGGAGAACAGAAGCTACAGATAAGAAAACCAAGTATCAGAGAAACGGTATATAGCCAAGGGAG
 CTCTCACTGGAGGAACAGAGGTGTCTGCACTTCCATGTACAACAACCGCTCCGGGAAATGGAAAGCCAGT
 TGGCAGCCACATGTGGTTACCTCACACCAGTCAAAGTGACAGTGGAGAGCACTCCCGATTTGGAAAA
 CAACCAATGAAAATGGTGTATCTGTTGAGAAATGAAAATTTTGAAGAAATATAAACTTACCCATTGGAT
 CTAACCATCCAGATTAGATGTCACCAACAGTGAAGAGCCAGAAATTCCTTTGAATCCAATTTGGCCCTT
 TGATGATGAAGGGACACTTGGGCCCTGCCTCAGGTAGATGGTGTTCAGACACAGCAGACTGCAGAAGTT
 ATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231409 representing NM_001198608
Red=Cloning site Green=Tags(s)

MPGSATALRHERLKKTNARPIPLGLFTINEEDEQQKNGNSRRPKAPDSYKVQDKKNASSRPASAI SGQNN
NHSGNKPDPPPVLRVDDRQLARERREEREKQLAAREIVWLEREERARQHYEKHLEERKKRLEEQRQKEE
RRRAAVEEKRRQRLEEDKERHEAVVRRTMERSQKPKQKHNRWSWGGSLHGSPSIHSADPDRRSVSTMNLS
KYVDPVISKRLSSSSATLLNSPDRARRLQLSPWESSVVRLLTPTHSFLARSKSTAALSGEAASCSP IIM
PYKAAHSRNSMDRPFVTPPEGSSRRRIIHGTASYKKERERENVFLTSGTRRAVSPSNPKARQPARSR
LWLPSKSLPHLPGTTPRPTSSLPPGSVKAAPAQVRPPSPGNIRPVKREVKVEPEKKDPEKEPQKVANEPSL
KGRAPLVKVEEATVEERTPAEPEVGAAPAMAPAPASAPAPASAPAPAPVPTPAMVSAPSSTVNASASVK
TSAGTTDPEEATRLLAEKRRLAREQREKEERERREQEELERQKREELAQRVAEERTTRREEESRRLEAEQ
AREKEEQ LQRQAEERALREREEAERAQRQKEEEARVREEAERVQREREKHFQREEQERLERKKRLEEIMK
RTRRTEATDKKTSQQRNGDIAGALTGGTEVSALPCTTNAPGNGKPVGSPHVVTSHQSKVTVESTPDLEK
QPNENGVSQNFEEIINLPIGSKPSRLDVTNSESPEIPLNPILAFDDEGTLGPLPQVDGVQTQQTAEV
I

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001198608

ORF Size: 2313 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001198608.1](#), [NP_001185537.1](#)

RefSeq ORF: 2316 bp

Locus ID: 9053

UniProt ID: [Q14244](#)

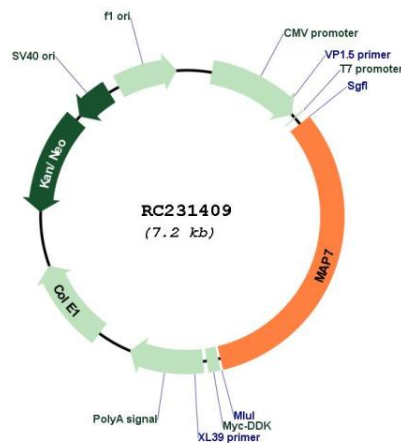
Cytogenetics: 6q23.3

Protein Families: Druggable Genome

MW: 87.4 kDa

Gene Summary: The product of this gene is a microtubule-associated protein that is predominantly expressed in cells of epithelial origin. Microtubule-associated proteins are thought to be involved in microtubule dynamics, which is essential for cell polarization and differentiation. This protein has been shown to be able to stabilize microtubules, and may serve to modulate microtubule functions. Studies of the related mouse protein also suggested an essential role in microtubule function required for spermatogenesis. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RC231409